



**ST JOSEPH'S INSTITUTION
END-OF-YEAR EXAMINATION 2021
YEAR 1**

CANDIDATE
NAME

CLASS

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INDEX
NUMBER

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GEOGRAPHY

29 September 2021

Additional Materials : Writing Paper

**1 hour 20 minutes
(0800 – 0920)**

READ THESE INSTRUCTIONS FIRST

Write your class, index number and name on all the work you hand in.

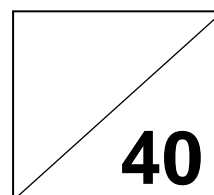
Write in dark blue or black pen.

Do not use staples, paper clips, glue or correction fluid.

Start each section on a **separate writing paper**.

Submit Sections A and B separately.

The number of marks is given in brackets [] at the end of each question or part question.

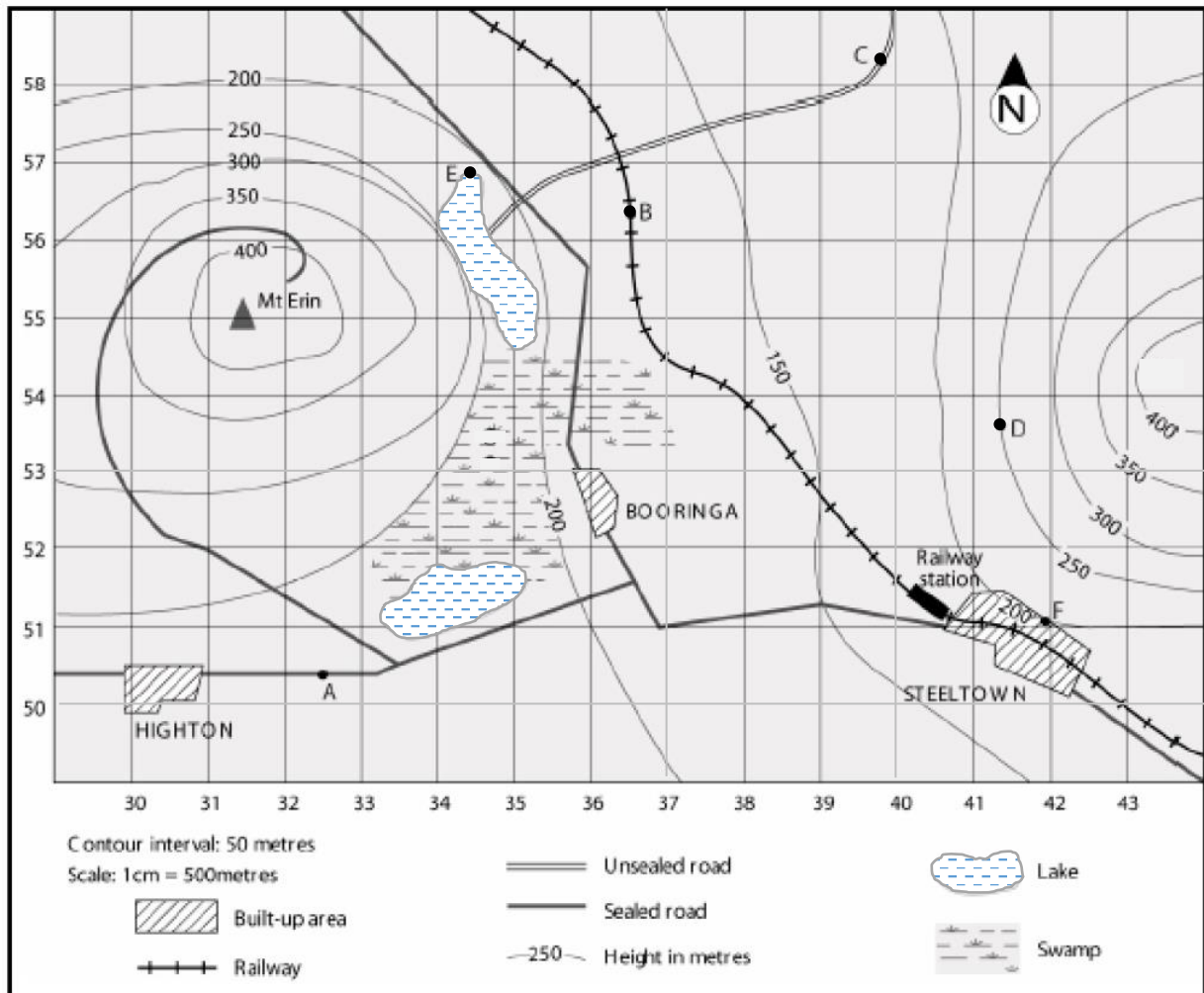


SECTION A: Topographic Map Reading (8 marks)

Answer **ALL** questions.

Write your answers on the **Writing Paper** provided.

1. Study the section of map extract from a simple topographic map.



Source: <http://www.jaconline.com.au/downloads/sose/topographic-skills.pdf>

- (a) How much higher is the land at point D than at point F? [1]
- (b) What is the highest possible height of Mt Erin? [1]
- (c) In which direction would you travel to reach point A from point C? [1]
- (d) What is the grid square of another similar physical feature to point E? [1]
- (e) What is the six-figure grid reference of the point where the railway intersects with the unsealed road? [1]
- (f) Which town, Highton or Steeltown, has the shortest straight-line distance to point B? What is the distance? [1]
- (g) In which direction can Booringa town expand and why? [2]

SECTION B: Structured Questions (4 x 8 = 32 marks)

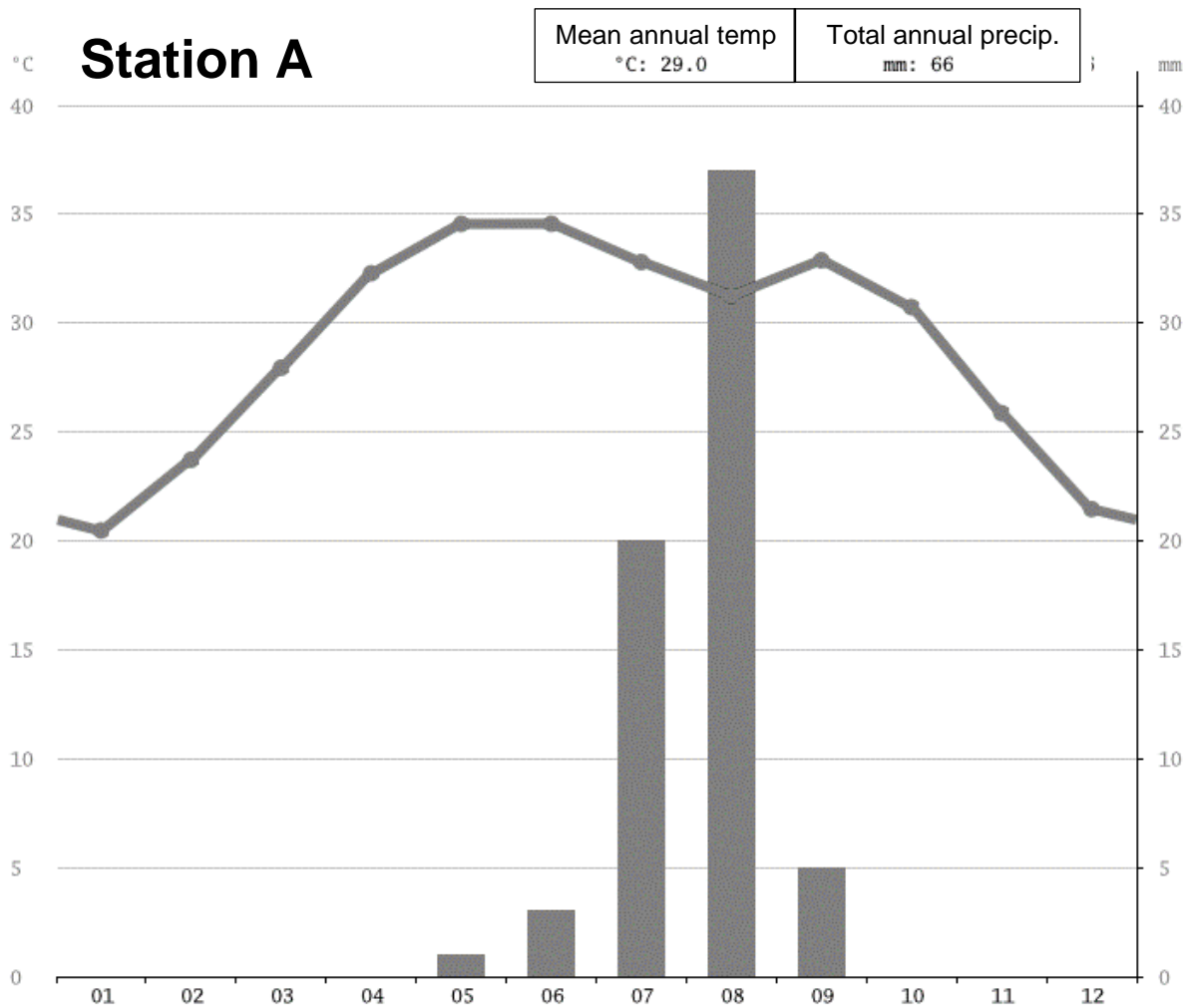
Answer **ALL** questions.

Write your answers on a fresh piece of **Writing Paper**.

2. Figures 1A and 1B show the temperature and precipitation of Station A and Station B, respectively.

Fig. 1A

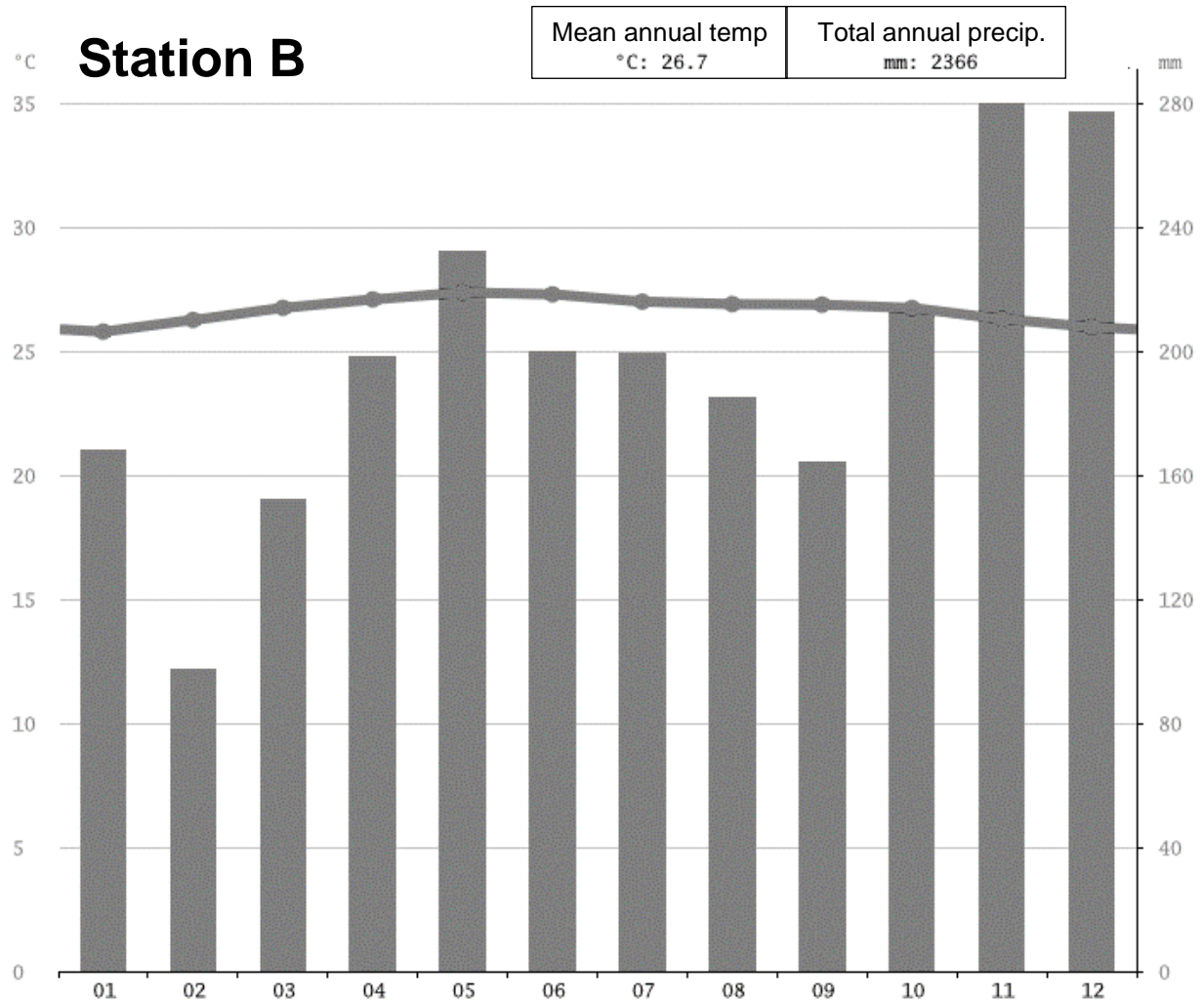
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly
Temp. (°C)	20.5	23.7	27.9	32.3	34.6	34.6	32.8	31.3	32.9	30.7	25.9	21.5	29
Precip (mm)	0	0	0	0	1	3	20	37	5	0	0	0	66



Source: <https://en.climate-data.org/>

Fig. 1B

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly
Temp. (°C)	25.8	26.2	26.7	27.1	27.4	27.3	27	26.9	26.9	26.7	26.3	26	26.7
Precip (mm)	168	97	152	198	232	200	199	185	164	214	280	277	2366

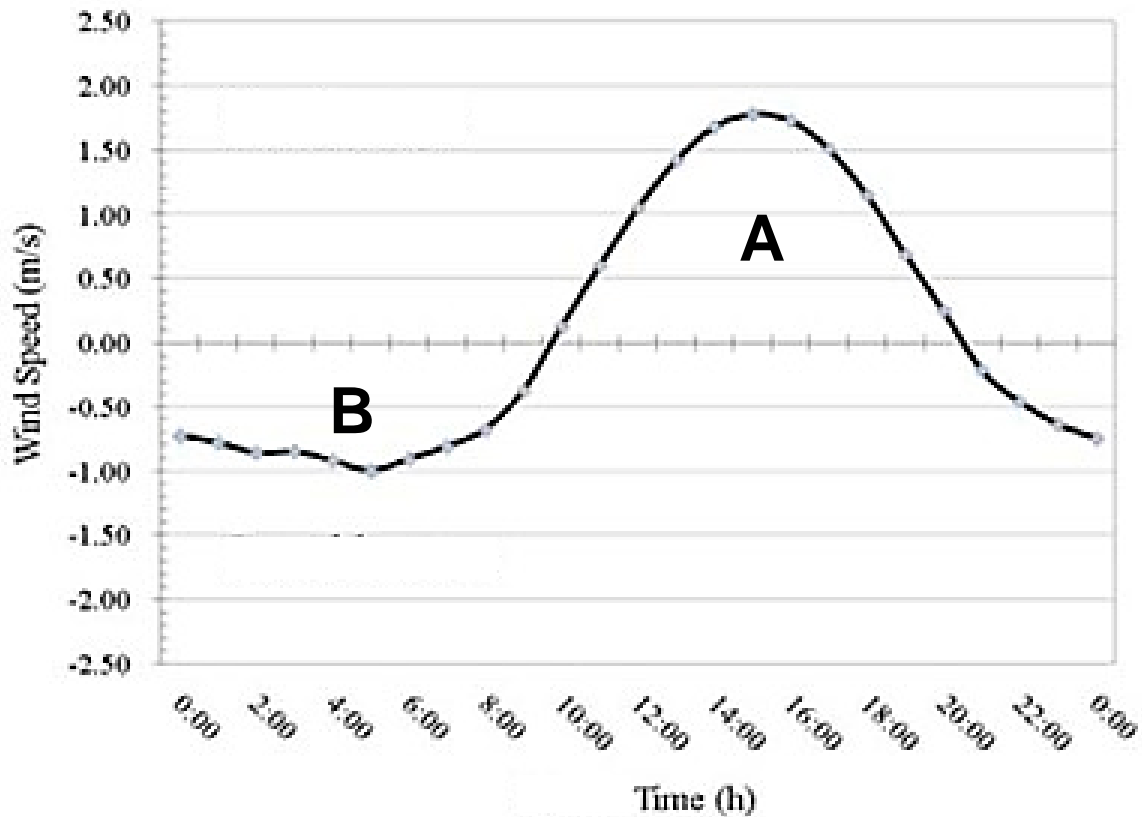


Source: <https://en.climate-data.org/>

- (a) Study **Fig.1A and Fig.1B** and identify the **climate** for
- (i) Station A [1]
 - (ii) Station B [1]
- (b) Use **Fig.1A (Station A)** and describe the distribution of
- (i) temperature, and [2]
 - (ii) precipitation. [2]
- (c) Explain why there is a great difference in precipitation received by Stations A and B. [2]

3.(a) Figure 2 shows a line graph on wind speed data at a coastal town.

Fig. 2



Source: <https://ars.els-cdn.com/content/image/1-s2.0-S1309104215305225-gr4.jpg>

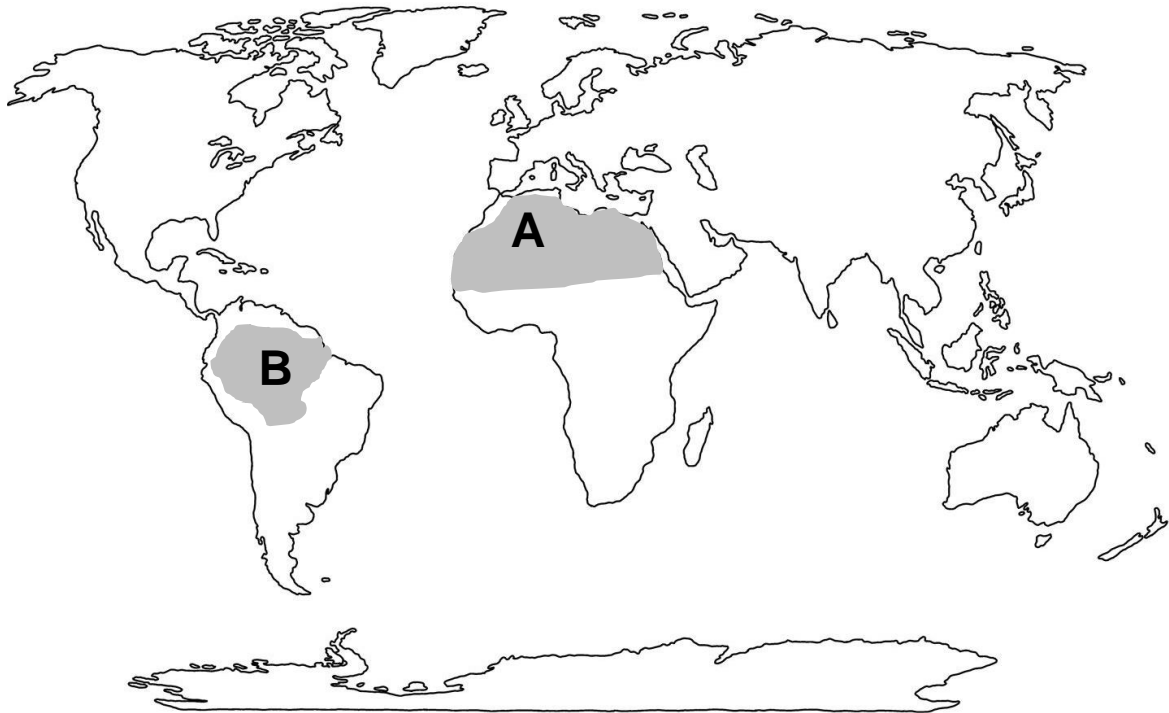
(i) Which section of the line graph, Section A or Section B, shows data of sea breeze? [1]

(ii) Explain your answer in 3(a)(i). [4]

(b) Explain why tropical deserts have high mean annual temperatures. [3]

4.(a) Figure 3 shows a map with the locations of two types of natural vegetation.

Fig. 3



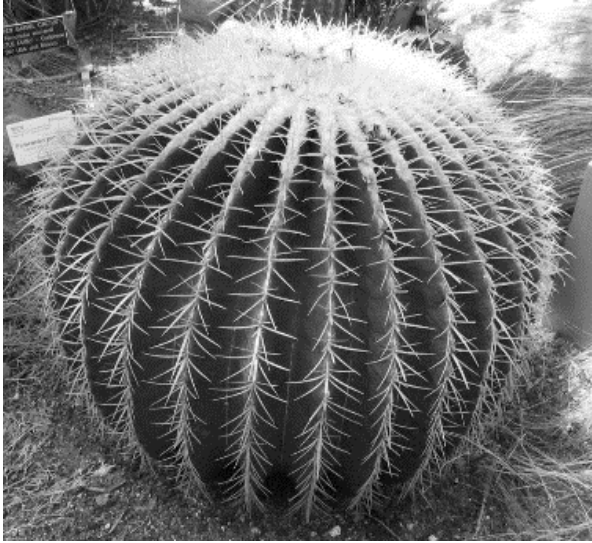
Source: <https://i.pinimg.com/originals/22/92/53/229253d43ef11f7267b1a51e7b18642e.jpg>

Study **Fig.3** and identify the type of natural vegetation found in

- | | | |
|------|------------|-----|
| (i) | Location A | [1] |
| (ii) | Location B | [1] |

4.(b) Figures 4A and 4B show two plant species.

Fig. 4A



Source: <https://commons.wikimedia.org/>

Fig. 4B



Source: https://live.staticflickr.com/209/512073464_83e8adade6_z.jpg

- (i) Study and use **Fig.4A and Fig.4B** to describe the main difference between their leaves. [2]
- (ii) Study and use **Fig. 4A** to explain how climatic conditions have influenced at least two ways in which it survives. [4]

5.(a) Figure 5 shows a type of weathering process.

Fig. 5



Source: https://www.geocaching.com/geocache/GC4ZH2F_konkoonsies?guid=52ebb26d-2057-4a42-8659-8dce722b890f

- (i) Study **Fig. 5** and identify the type of weathering process. [1]
- (ii) Study and use **Fig. 5** to explain the way the rock looks. [3]

5.(b) Figure 6 shows a rock feature.

Fig. 6



Source: <https://1.bp.blogspot.com/-HsxCTqODSrQ/XuDXqWZMqEI/AAAAAAAAADyY/xJTOMkuECDIwdJxDeKegoGuXKjB6TT2QwCLcBGAsYHQ/s1600/2Brocks%2Bin%2BWhite%2BDesert%252C%2BEgypt%2B3.jpg>

- (i) Study and use **Fig. 6** to describe the way the rock feature looks. [2]
- (ii) Explain your answer in 5(b)(i). [2]

End-of-paper